

*not loosen the axle nut to align it with the hole.*

- c. Install a new cotter pin through the nut groove and axle hole, and then spread the ends to lock it in place (**Figure 18**).

### Inspection

1. Inspect the seal (A, **Figure 20**) and replace it if it is damaged.
2. Inspect the studs (B, **Figure 20**) and replace them if they are damaged.
3. Clean and dry the hub splines.
4. Check the hub for cracks or other damage.
5. Service the dust seal (C, **Figure 20**) and brake drum as described in *Brake Drum* in Chapter Thirteen.

## SHOCK ABSORBERS

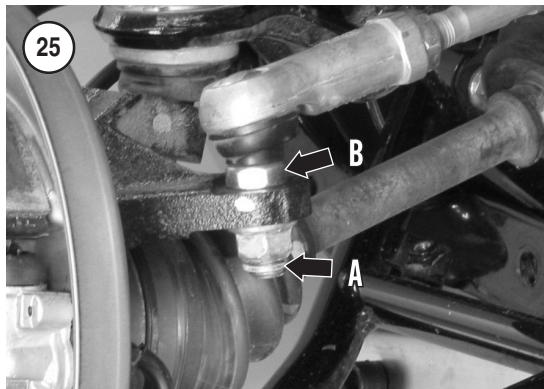
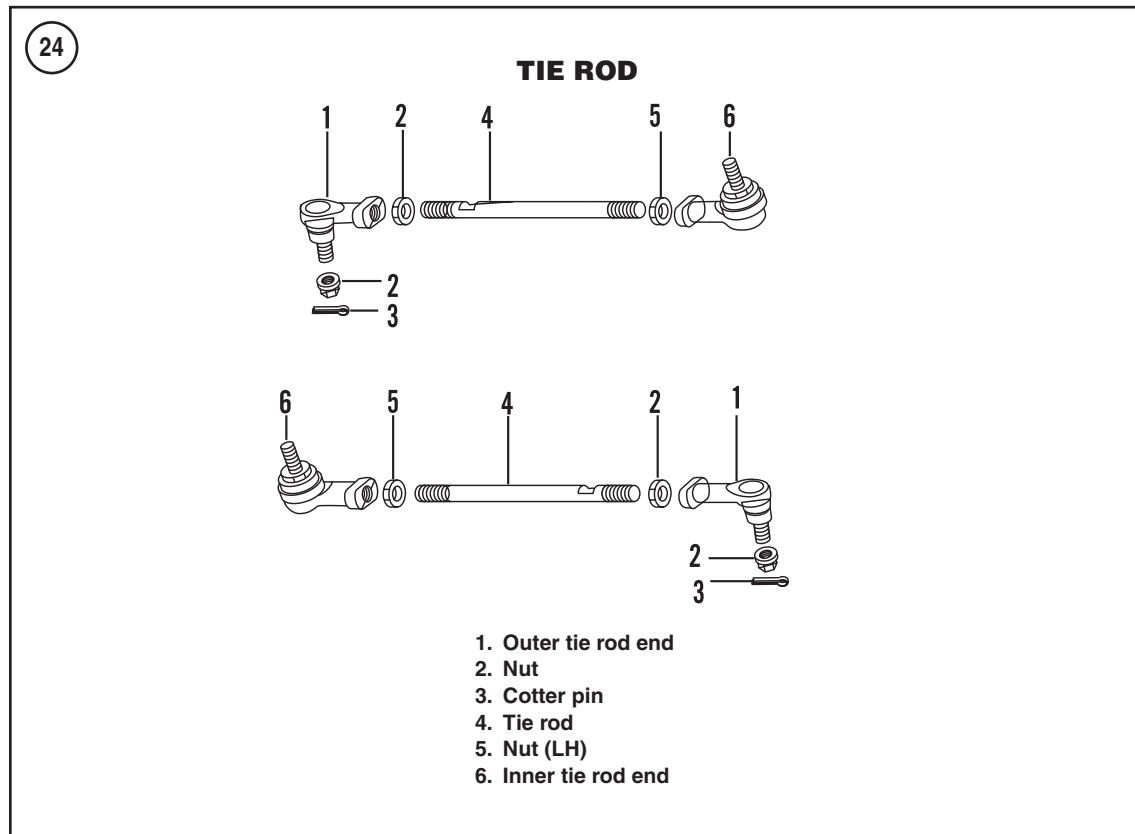
### Removal/Installation

1. Support the ATV with the front wheels off the ground.
2. Remove the upper and lower shock absorber locknuts and bolts, and remove the shock absorber (**Figure 21**). Discard the locknuts.
3. Inspect the shock absorber as described in this chapter.
4. Install the shock absorber by reversing the preceding removal steps, while noting the following:
  - a. Note that the upper bolt is shorter than the lower bolt.
  - b. Install new shock locknuts.
  - c. Tighten the upper and lower shock absorber locknuts to 30 N•m (22 ft.-lb.).

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### Inspection

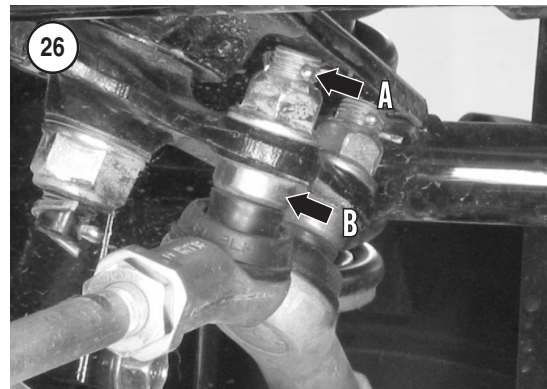
1. Clean and dry the shock absorber (**Figure 22**).
2. Check the damper unit for leaks or other damage. Inspect the damper rod for bending.
3. Inspect the upper and lower rubber bushings (**Figure 23**). Replace severely worn or damaged bushings as described in this section.
4. Inspect the spring for damage.
5. If the damper unit or spring is damaged, replace the entire shock absorber unit. Other than end



bushings, individual components are not available.

### Shock Bushing Replacement

1. Support the damper unit in a press and press out one of the bushings (**Figure 23**).
2. Clean the shock bushing bore.



3. Press in the new bushing, being sure to center it in the bushing bore.
4. Repeat for the other bushing.

### TIE RODS

The tie rods consist of an inner end and outer end. Individual parts that make up the tie rod assembly (**Figure 24**) are available.

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